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(54) Title: TREATING CANCER SORES WITH PATCHES TO SPEED HEALING AND RELIEVE PAIN

(57) Abstract: A method for treating canker sores with oral patches to speed healing and relieve pain. If certain medications are applied to a canker sore using an oral patch that restricts local flow of saliva and delivers the medication for at least 30 minutes and the patches are used for at least two or more hours per day, the method reduces the healing time for canker sores from typical 10-14 days to 2 days. The method can be used with various antimicrobials that speed the healing of canker sores, including penicillin and amoxicillin. The method can also be used with amlexanox and de-glycyrrhizinated licorice extract (DGL) which work by an unknown method. When used with DGL, the method also quickly relieves canker sore pain and, if used before commencing a meal, typically relieves pain through a complete meal. A soluble oral patch with DGL is disclosed.

WO 03/039465 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/35399

A. CLASSIFICATION OF SUBJECT MATTERIPC(7) : A61L 15/16
US CL : 424/446, 447

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/422, 434, 435, 443, 445, 446, 447, 448

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST, transmucosal, canker sore, fever blister, ulcer lesion, mouth, antibacterial, gum, gelatin**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,362,737 A (VORA et al) 08 November 1994 (08.11.1994), column 2, lines 40-53, examples. <i>- amplexanox</i>	1-55
Y	US 5,713,852 A (ANTHONY et al) 03 February 1998 (03.02.1998), entire document. <i>- pill with over-the-top</i>	1-55
Y	US 5,409,703 A (MCANALLEY et al) 25 August 1995 (25.08.1995), entire document. <i>covering the flap patch</i>	1-55

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.*** Special categories of cited documents:****"A"** document defining the general state of the art which is not considered to be of particular relevance**"E"** earlier application or patent published on or after the international filing date**"L"** document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)**"O"** document referring to an oral disclosure, use, exhibition or other means**"P"** document published prior to the international filing date but later than the priority date claimed**"T"**

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

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"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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document member of the same patent family

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